C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.72.f   LINAC Chipmunk Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.72		

<u>Hand Processed Changes</u>

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos</u>.	<u>Initials</u>

Approved:_____*Signature on File*_____   _____
Collider-Accelerator Department Chairman   Date

V. Castillo

4.120.72.f LINAC Chipmunk Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____   **Checksum:** _____

Division B Software Filename and Checksum: Title:_____   **Checksum:** _____

■■■

Initial testing complete:

Test Team Leader's Name (Print): _____   **Life Number:** _____

Test Team Leader's Name (Sign): _____   **Date:** ____/____/_____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____   **Life Number:**_____

Test Team Leader's Name (Sign): _____   **Date:** ____/____/_____

Test results reviewed by:

Safety Section Head's Name (Print):_____   **Life Number:** _____

Safety Section Head's Name (Sign):_____   **Date:** ____/____/_____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print):_____   **Life Number:** _____

 RSC Member's Name (Sign):_____   **Date:** ____/____/_____

1.1   **Test of Chipmunk NMO 62, area monitor, located U/S of Linac Plug Door**

☐ **VERIFY**   Chipmunk calibration date [_____/_____/_____] is   **VALID**
☐ **VERIFY**   Chipmunk is in good physical condition and is   **CHIRPING**
☐ **VERIFY**   **MCR** sees Chipmunk **keep-alive** counts   **O.K.**
☐ **VERIFY**   **NMO 62 was source-tested to MCR on ____/_____/_____**   **OK**

☐ **Check for test acceptance of Chipmunk NMO 62**

1.2   **Test of Chipmunk NMO 63 located at Linac Tank 4/5**

☐ **VERIFY**   Chipmunk calibration date [_____/_____/_____] is   **VALID**
☐ **VERIFY**   Chipmunk is in good physical condition and is   **CHIRPING**
☐ **VERIFY**   **MCR** sees **Opto monitor** Chipmunk **NMO 63**   **O.K.**
☐ **VERIFY**   At encl 4880 relay **BK14** is   **ON**

DISCON   **NMO 63** from **Security interface box** for **failsafe test**
☐ **VERIFY**   At encl 4880 relay **BK14**   **OFF**
☐ **VERIFY**   **MCR** sees at **Opto monitor** NMO 63   **IN'LOCK**
RESET   **NMO 63 from MCR Opto monitor**
☐ **VERIFY**   **MCR** sees NMO 63   **OK**
☐ **VERIFY**   At encl 4880 relay **BK14** is   **ON**

PRESS   **Trip button** on chipmunk NMO 63
☐ **VERIFY**   **At encl 4880 relay BK14**   **OFF**
☐ **VERIFY**   **MCR** sees at Opto monitor NMO 63   **IN'LOCK**
RESET   **NMO 63 from MCR Opto monitor**
☐ **VERIFY**   **MCR** sees NMO 63   **OK**
☐ **VERIFY**   At encl 4880 relay **BK14** is   **ON**

☐ **Check for acceptance of Test Chipmunk NMO 63 located at Linac Tank 4/5**

1.3   **Test of Chipmunk NMO 68 located at Linac Tank 1**

☐ **VERIFY**   Chipmunk **calibration** date [_____/_____/_____] is   **VALID**
☐ **VERIFY**   Chipmunk is in good physical condition and is   **CHIRPING**
☐ **VERIFY**   **MCR** sees **at Opto monitor** Chipmunk **NMO 68**   **O.K.**
☐ **VERIFY**   At encl 4880 relay **CK8** is   **ON**

DISCON   NMO 68 FROM interface box for **failsafe**
☐ **VERIFY**   At encl 4880 relay **CK8**   **OFF**
☐ **VERIFY**   **MCR** sees at Opto monitor NMO 68   **IN'LOCK**
RESET   **NMO 68** from **MCR Opto monitor**
☐ **VERIFY**   **MCR** sees NMO 68   **OK**
☐ **VERIFY**   At encl 4880 relay CK8 is   **ON**

PRESS   **Trip button** on chipmunk NMO 68
☐ **VERIFY**   **At encl 4880 relay CK8**   **OFF**
☐ **VERIFY**   **MCR** sees at **Opto monitor** NMO 68   **IN'LOCK**
RESET   **NMO 68** from **MCR Opto monitor**
☐ **VERIFY**   **MCR** sees NMO 68   **OK**
☐ **VERIFY**   At encl 4880 relay **CK8** is   **ON**
☐ **Check for acceptance of Test Chipmunk NMO 68 located at Linac Tank 1**

1.4   **Test of Chipmunk (# 1) NMO 61 located at BLIP Pump House**

☐   **VERIFY**   Chipmunk calibration date [_____/_____/_____] is   **VALID**
☐   **VERIFY**   Chipmunk is in good physical condition and is   **CHIRPING**
☐   **VERIFY**   **MCR** sees **Opto monitor** Chipmunk **NMO 61**   **O.K.**
☐   **VERIFY**   At encl 4880 relay **AK13** is   **ON**

     DISCON   **NMO 61** from **Security interface box** for **failsafe test**
☐   **VERIFY**   At encl 4880 relay **AK13**   **OFF**
☐   **VERIFY**   **MCR** sees at **Opto monitor** NMO 61   **IN'LOCK**
     RESET   **NMO 61 from MCR Opto monitor**
☐   **VERIFY**   **MCR** sees NMO 61   **OK**
☐   **VERIFY**   At encl 4880 relay **AK13** is   **ON**

     PRESS   **Trip button** on chipmunk NMO 61
☐   **VERIFY**   **At encl 4880 relay AK13**   **OFF**
☐   **VERIFY**   **MCR** sees at Opto monitor NMO 61   **IN'LOCK**
     RESET   **NMO 61 from MCR Opto monitor**
☐   **VERIFY**   **MCR** sees NMO 61   **OK**
☐   **VERIFY**   At encl 4880 relay **AK13** is   **ON**

☐   **Check for acceptance of Test Chipmunk (# 1) NMO 61 located BLIP Pump House**

1.5   **Test of Chipmunk (# 2) NMO 65 located at BLIP Pump House**

☐   **VERIFY**   Chipmunk calibration date [_____/_____/_____] is   **VALID**
☐   **VERIFY**   Chipmunk is in good physical condition and is   **CHIRPING**
☐   **VERIFY**   **MCR** sees **Opto monitor** Chipmunk **NMO 65**   **O.K.**
☐   **VERIFY**   At encl 4880 relay **BK15** is   **ON**

     DISCON   **NMO 65** from **Security interface box** for **failsafe test**
☐   **VERIFY**   At encl 4880 relay **BK15**   **OFF**
☐   **VERIFY**   **MCR** sees at **Opto monitor** NMO 65   **IN'LOCK**
     RESET   **NMO 65 from MCR Opto monitor**
☐   **VERIFY**   **MCR** sees NMO 65   **OK**
☐   **VERIFY**   At encl 4880 relay **BK15** is   **ON**

     PRESS   **Trip button** on chipmunk NMO 65
☐   **VERIFY**   **At encl 4880 relay BK15**   **OFF**
☐   **VERIFY**   **MCR** sees at Opto monitor NMO 65   **IN'LOCK**
     RESET   **NMO 65 from MCR Opto monitor**
☐   **VERIFY**   **MCR** sees NMO 65   **OK**
☐   **VERIFY**   At encl 4880 relay **BK15** is   **ON**

☐   **Check for acceptance of Test Chipmunk (# 2) NMO 65 located at BLIP Pump House**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

Date: _____/_____/_____

TTL: Sign for completion of final testing: _____

Date: _____/_____/_____